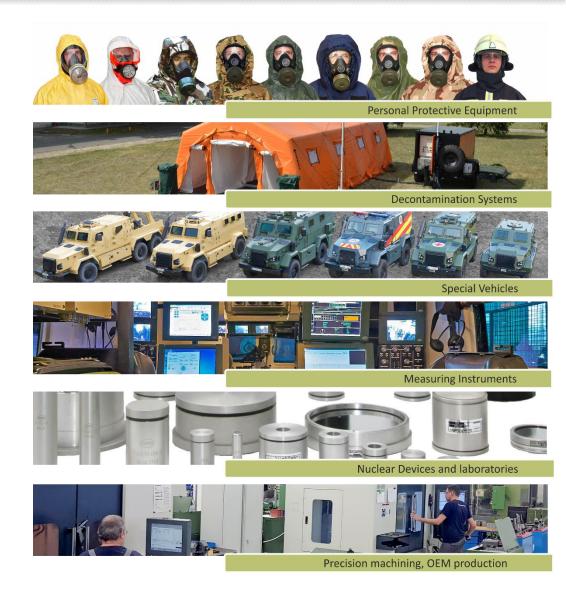
GAMMA Technical Corporation





Budapest, 2019





www.gammatech.hu

GAMMA Technical Corporation



- 100% Hungarian,
- significant defence equipment
 manufacturer company in Hungary,
 with the widest product portfolio.



Decontamination Systems





Measuring Instruments



Nuclear Devices and laboratories



Precision machining, OEM production

Main GAMMA group members:

- Hungarian Defence Holding Ltd
- MLR Tech Ltd (monitoring system maintenance services)
- CBRN Hungary Ltd (trading)
- TESTLAB Ltd (test laboratories)
- Artifex Ltd
- Inter-Mentor Ltd (facility management)
- Mentorex Ltd (facility management)



www.gammatech.hu

History



1920 Foundation of **Gamma** Zrt. Juhász brothers - mechanical and optical instruments

1930-39 Development of defensive devices - mechanical computer for aiming guns, (Gamma-Juhasz), Barabas telescope, light telephone, theodolites.

1939-45 Expansion of production - special requirements of the army

1945-49 New product lines - precision accessories, microscopes, projectors, geodesic instruments, DUFLEX camera.

1949 State property, new name: Gamma Works - new profile: nuclear detectors and instruments, industrial measurement and control, geophysical well-logging systems

1955 NBC devices, nuclear diagnostic

1994 The company is re-privatized under the former name of Gamma Technical Corporation. Additional development in the field of NBC defense, environment protection instruments and nuclear medical instruments.

- **1998** Core business: Radiation measurement, Scintillation crystals and probes, Meteorological and monitoring systems
- 2007 Strategic partnership with Respirator Zrt
- 2007 Foundation of CBRN Hungary
- 2008 After 88 years, moving to a new location
- 2009 Foundation of Testlab Ltd
- 2010 New product line: Armoured vehicles
- 2014 Foundation of Hungarian Defence Holding
- 2015 Integration of Respirator Zrt, ATAX Ltd, AGR informatic, Ltd, DKM Ltd
- 2017 Improving production capabilities
- 2017 Integration of Gamma Mechanical Ltd



1928 The ancestor of the **Respirátor** company is founded by the German AUER Co. and Hungarian Defence Treasury in order to supply the army with respiratory protective devices from domestic production.

1938-45 The company is owned by the Hungarian Defence Forces.

1945 State property with the same field of activity.

1963 The company becomes one of the factories of Medicor Works, the activity is

expanded with production of medical instruments, equipment.

2007 New ownership and management from Gamma



2015 Merging into the Gamma Technical Corporation





Air and water pollution in case of CBRN events

- Chemical (C) or •
- Biological (B) or ٠
- Radioactive (R) or ٠
- Nuclear (N) ٠



All fire scenes



ADR carrier vehicles



Chemical, biological, isotope laboratories



Dangerous plants



Nuclear reactors

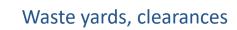


Postal packages



Chemical substance warehouses





Radioactive waste repositories, deposits



Agricultural facilities



Our mission is to protect Your colleagues and the citizens.



Providing solutions for governmental/industrial bodies



Customer – centric engineering . Long term thinking ... another 98 years together!

Our customers are Our Partners

Main or Sub contracting
Technology transfer
Joint venture

Divisions

(jamma)

- Personal Protective Equipment Division
- Measuring Instruments Division
- Nuclear Devices Division
- Field Deployable Supporting Systems Division
- Special Vehicles Division
- Simulation and Training Systems Division
- Precision Machining / OEM R&D and production
- Test laboratories
- Defence Division(Military & Civil)



Fields of Activity



Personal Protective Equipment Division

Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division





- Full and half mask
- Filter canisters
- Escape hoods
- NBC & Fire fighter protective suits
- Filters for collective protection



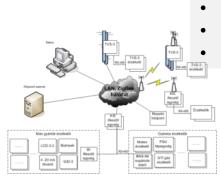


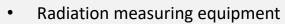


Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division









- Chemical detectors
- NBC Reconnaissance systems
- Monitoring stations
 - Monitoring and Early Warning systems





Fields of Activity



Personal Protective Equipment Division Measuring Instruments Division

Nuclear Devices Division

Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division





- Laboratory measuring systems
- In situ measuring systems
- Radiation protection devices
- Emission control systems





Fields of Activity



Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division **Field Deployable Supporting Systems Division** Special Vehicles Division Simulation and Training Systems Division



• Field camp systems













Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division **Special Vehicles Division** Simulation and Training Systems Division







- system integration into / and refurbishment of existing vehicles, superstructures
- development and production of special purpose vehicles / trailers
- development and production of superstructures
- vehicle development and production











Personal Protective Equipment Division **Measuring Instruments Division** Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division **Simulation and Training Systems Division**

Joint simulation model:

- Land forces
- Air, air defence forces •
- Naval forces
- Logistic (transport, medical, engineering)
- CBRN
- OOTW
- **Urban operations**
- **Disaster management**
- Anti terrorist operations
- Homeland security
- **Critical Infrastructure Protection**

- constructive simulation
- virtual simulation
- vehicle and weapon system simulators
- cyber security and operations training
- **CBRN** recce simulators









Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division

+1,2: Precision Machining /OEM R&D and production Divisions





- Precision Machining
- Welding
- Painting
- Clean room
- Antistatic assembly
- ...
- Customized products
- OEM production



Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division Precision Machining /OEM R&D and production Divisions +3: Test laboratories



Chemical lab



Nuclear lab



Nuclear calibration lab



Climatic and environmental resistance test lab



Prototype testing



Chemical calibration lab



Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division Precision Machining /OEM R&D and production Divisions Test laboratories

+4 : Defence Division



Single door service for Defence related government customers.









Accessories



Custom made product and accessories production OEM production



- Rugged displays (6,5"-42")
- Rugged computers
- User interface modules
- etc.

Based on our experiences accumulated during the past decades, in different countries: many times the requirement are different too, however most of the manufacturers show no flexibility in this matter.

We believe that above the benefits arising from the quality of our products, and the lack of grand political aims and power of our country, it is also very important that we are able to manufacture unique products in small series for our customers, and

we are

READY FOR THE TECHNOLOGY TRANSFER, TOO!

Capabilities

Gamma

R&D

- Mechanical engineering
- Electrical engineering
- Software development
- Measurement devices, CBRN, Armoured Vehicle expertise
- Customized products





Production

- Precision Machining,
- Welding
- Painting
- Clean room
- Antistatic assembly
- •

...

- Customized products
- OEM production







Maintenance

• On-site/In-site maintenance

Laboratories

- Nuclear lab
- Nuclear calibration lab
- Chemical lab
- Chemical calibration lab
- Climatic and environmental resistance test lab
- Prototype testing







Infrastructure:

- BUDA SITE: 5,800 m2 offices, workshops (for rent),
- PEST SITE: 12,000 m2 workshops, warehouses, offices, laboratories, on a 52,000 m2 land





Complex CBRN defence and more...

R&D, production and maintenance:

- Scintillation detection
- Radiation detection
- Radiation measuring instruments
- Monitoring systems
- Data acquisition software
- Meteorological systems
- Custom devices
- Filter canisters
- Escape hoods
- Protective suits

- Collective protection systems
- Decontamination systems
- Light armoured vehicles
- Field camp equipment
- Component manufacturing
- Training and Simulation
- OEM production
- 7/24 maintenance services
- Commercial representation





Catalogs









Product data sheets:



Gamma Technical Corporation





Personal Protective Equipment





Decontamination Systems





Measuring Instruments



Nuclear Devices and laboratories



Precision machining, OEM production

in details



www.gammatech.hu

Fields of Activity



Personal Protective Equipment Division

Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division





- Full and half mask
- Filter canisters
- Escape hoods
- NBC & Fire fighter protective suits
- Filters for collective protection





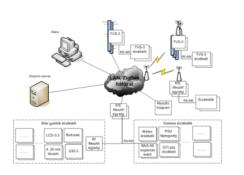


Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division









- Radiation measuring equipment
- Chemical detectors
- NBC Reconnaissance systems
- Monitoring stations
- Monitoring and Early Warning systems

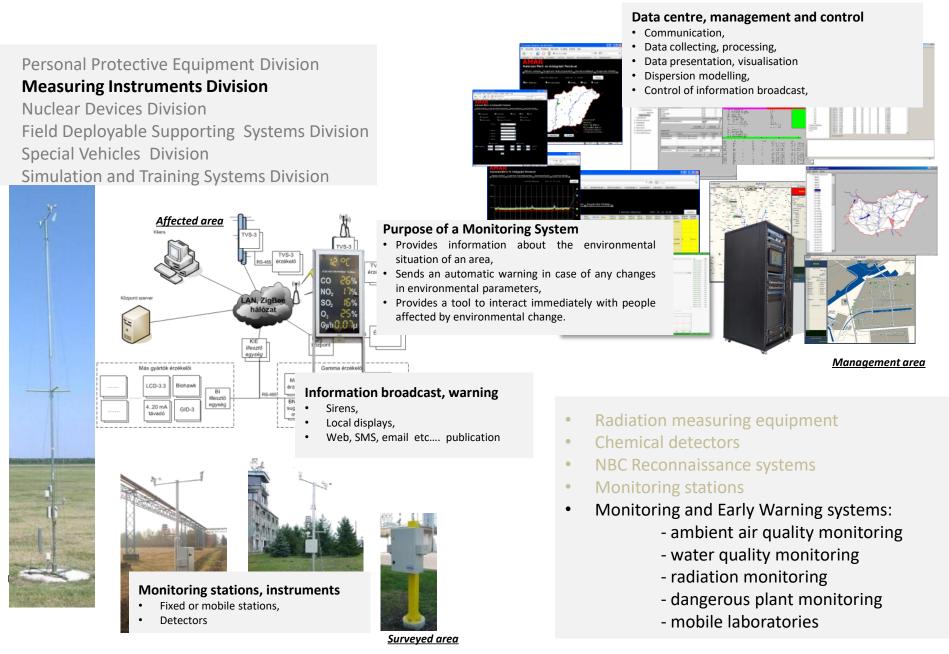














Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division





TVS-3 AMAR









TVS-3ML







Portal monitors



- Radiation measuring equipment
- Chemical detectors
- NBC Reconnaissance systems
- Monitoring stations
- Monitoring and Early Warning systems





Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division



IH-111 Radiological Field food tester



Intelligent scintillation detectors (NDI)



IH 295 / BNS 295 Combined radiation level and contamination meter



BNS 94FM Radiation recce system



BNS98 L dose

rate transmitter

IH 95 Radiation level and contamination meter



SFK

BNS 298 DECO

protection

monitor

BNS 97 Radiation

Surface beta contamination transmitter

- Radiation measuring equipment
- Chemical detectors
- NBC Reconnaissance systems
- Monitoring stations
- Monitoring and Early Warning systems







Intelligent gas detectors

Fields of Activity



Personal Protective Equipment Division Measuring Instruments Division

Nuclear Devices Division

Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division





- Laboratory measuring systems
- In situ measuring systems
- Radiation protection devices
- Emission control systems







Nuclear Devices Division

Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division



Spectrometry software

Low background measuring stations



4Pi measuring stations



FH-20 shielded syringe carrier



Scintillation crystals (since 1960) and Intelligent detectors

- Laboratory measuring systems
- In situ measuring systems
- Radiation protection devices
- Emission control systems
- Software



Nuclear Devices Division

Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division

Surface

transmitters

beta-contamination



Portable lead shielded measuring instruments Portable intelligent scintillation detectors

- Laboratory measuring systems
- In situ measuring systems
- Radiation protection devices
- Emission control systems
- Software



Nuclear Devices Division

Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division





OnREM Radioactive particle monitoring systems for liquid and gaseous substances





- Laboratory measuring systems
- In situ measuring systems
- Radiation protection devices
- Emission control systems
- Software

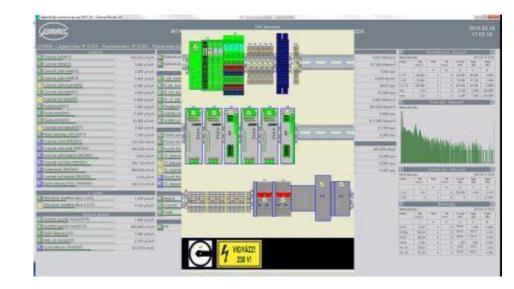


Nuclear Devices Division

Field Deployable Supporting Systems Division Special Vehicles Division

Simulation and Training Systems Division







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Fields of Activity



Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division

- Decontamination systems
- Field camp systems









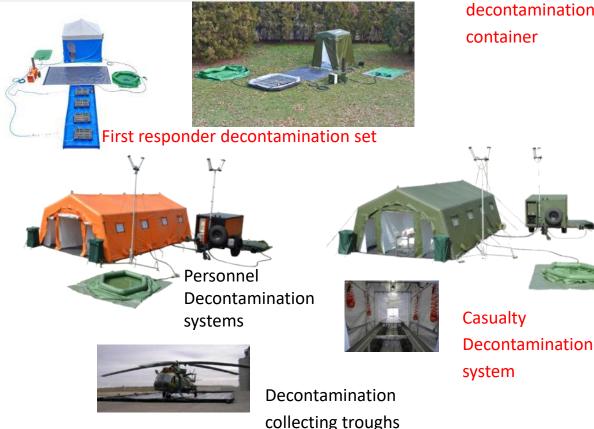


Field Deployable Supporting Systems



Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division

Simulation and Training Systems Division





Battalion level decontamination equipment Decon trailers (according to the customer's requirements)

- Decontamination systems
- Field camp systems



Water supply modules

Battalion-level Decon Trailer (ZMB)





Function:

Decontamination of a bataillon level subunit have been acted on a CBRN contaminated territory.

decon trailer ("ZMU") (one-axle, 3.5t)

- generator (CAMINO 35DS)
- pre-treatment module (HD-4000)
- pre-treatment module (AMGDS-2000)
- pre-treatment module (HDS-12/14 ST Eco)
- hose reel with HP-hoses (3 pc)
- central control panel
- area lighting equipment



additional equipment ("ZMU-KF")

- water tank (3000 l, stainless steel)
- collapsible water tank (3000 l)
- personal decon equipment
- hot water module (HWM-3000)
- chain crane
- decon agents
- equipment of the crew



Personnel Decon Container (SZMK-1200)

Gamma

This containerized system has the only task: decontamination of personnel who have been acting on a CBRN contaminated territory.

The container is divided into 4 sections:

The water tank section and the control section contain the built-in-equipment. The 2 shower sections have a second task: these spaces are used for transportation of the loaded equipment, the biggest portion of which are the 4 airsupported tents (2 for undressing and 2 for dressing). The system has its own 1200-litres-stainless-steel-watertank and a separate collapsible water tank (as additional water resource)

The personnel decontamination can be made in 2 personnel decon sections. Each section has 2 personnel decon lines and there are 3 showers in each line. The full capacity is 240-300 people/hour

The system contains also pre-treatment equipment: some additional accessories for taking off and collecting of the contaminated individual equipment. They are also loaded into the shower sections.





The system can be used for decontamination of injured people evacuated from a CBRN contaminated territory. So it serves on one hand for their individual protection on the other hand to avoid the contamination spreading to the levels of medical care system.



Main units:

- patient decontamination tent
 (air-supported, 9,7 * 5,9 * 3,6 m)
 - with preparation, wet-treatment and post
 - treatment areas,
 - with overpressure providing channels,
 - with interfaces for connection to other systems,
- stretcher holding frame
- personel decon scaffold (with fixed and hand shower heads)
- waste water collecting basin and pump
- 1-axle trailer (3,5t)
- water supply module (built into the trailer)
- main control panel (built into the trailer)
- collapsible water tank (3000L) (for clean water)
- collapsible water tank (6000L) (for waste water)
- tent lighting set
- area lighting set (TVK-2U)
- mobile area lighting set (MTVK-2)

Operating possibilities:

Using of this equipment in full autonomy is not planned, so it requests outer (380V) power supply. Its collapsible water tank (3000L) can serve as a water source or it can be supplied from pipe system. **Without setting up the stretcher holding frame it can be used as a normal personnel decontamination system** (4 lines, with 3 showers in each).

(jamma)

The system can be used for decontamination of people who have been operating on a CBRN contaminated territory or being evacuated from there (people should take off their contaminated equipment and clothing before entering the tent).



Main units:

- personnel decontamination tent (air-supported, 9,7 * 5,9 * 3,6 m)
 - with preparation, wet-treatment and post-treatment areas,
 - with overpressure providing channels,
 - with interfaces for connection to other systems,
- personnel decon scaffold (with fixed shower heads)
- waste water collecting basin and pump
- 1-axle trailer (3,5t)
- water supply module (built into the trailer)
- main control panel (built into the trailer)
- collapsible water tank (3000L) (for clean water)
- collapsible water tank (6000L) (for waste water)
- tent lighting set
- area lighting set (TVK-2U)
- mobile area lighting set (MTVK-2)

Operating possibilities:

Using this equipment in full autonomy is not planned, so it requests external (380V) power supply.

Its collapsible water tank (3000L) can serve as a water source or it can be supplyed from pipe system.

After setting up the stretcher holding frame in the middle decon lines it can be used as a casualty decontamination system (1 line for non-ambulant and 2 lines for ambulant casualties, with 3 showers in each).

Water supply module (RBA-70KVi)





After starting of the system the primery circuit water will be heated by the heater up to 85 °C and later it will be kept between 85 and 60 °C depending on the output water consumption:

•the thermo regulator doesn't allow to exceed 85 °C,

•when the output water consumption doesn't need more heating the water will be heated only up to 60 °C,

•if there is no heating need more the heaters will stop their operation automatically,

•when the primer circuit water will be cooled in the heat exchanger the heaters will start their operation again automatically.

Function:

The system can serve for providing casualty or personnel decontamination systems with heated water and with a mixture of heated water and personnel decon agent.

(It also can be used to the normal shower systems)

Parameters

•Water pump capacity: 85 L/min (at 4,0 bar)

•Max. pressure: 5,5 bar

•Max. heating capacity of the burner: 70 kW (2 heater units, 35 kW each)

•2* water heaters (heat exchanger) (75 kW each, spiral type)

•water heating range (in the water heater): 60 ÷ 80°C (depending on consumption, controlled automatically) nominal mixing range of the output water: 20 ÷ 45 °C (adjusted by the crew)

•temperature of the input water: $\leq 20^{\circ}$ C

•Max. ΔT: 30°C

•Fuel: diesel (*RBA-70 works from a 20L-jerry can*)

- •Power supply: 230 V 16 A
- •Power consumption: 1750 W
- •Dimensions (L*W*H): 900 * 680 * 940 mm
- •Weight: 270 kg

First Responder Decontamination Sets





The kit can be used by first responder teams for self and personnel decontami-nation after carrying out their tasks on a CBRN contaminated territory.

Main characteristics:

- capacity: 24 persons/hour
- need in water: 1,160 L/h

Parameters of RVA-35 Kvi:
water pump capacity: 85 L/min
max. pressure: 10 bar
max. heating capacity of the burner: 35 kW
max. ΔT: 30°C
fuel: diesel (jerry can)
power supply: 230 V 16 A
power consumption: 1 750 W
dimensions (L*W*H): 1.150 * 470 * 567 mm
weight: 145 kg

Main units:

- protective equipment decontamination set:
 - decontamonation pool (with pneumatic brim),
 - plastic pallet (0.8 * 0.6 m) 6,
 - decontamination ring (with 8 nozzles) 2,
 - decontamination kit (DS-5),
 - waste water pump,
- personel decontamination set:
 - personel decontamination tent (air-supported, 2.0 * 2.0 * 2.4 m),
 - personel decontamination scaffold (2* fixed + 2* hand showers),
 - plastic pallet (0.8 * 0.6 m) 6,
 - waste water pump,
- water supply module (RBA-35KVi)
 - with fuel source (= 10L-canister),
 - with water filter unit,
- collapsible water tank (3000L) (for clean water)
- collapsible water tank (4000L) (for waste water)

Gamma Modular Field Kitchen (GTMM-16)







Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division **Special Vehicles Division** Simulation and Training Systems Division







- system integration into / and refurbishment of existing vehicles, superstructures
- development and production of special purpose vehicles / trailers
- development and production of superstructures
- vehicle development and production











KML, DM Mobile Laboratory













KML ADR, DM DIM















Fire Fighter C2





CBRN reconnaissance vehicle based on RDO 3221

(jamma)

Main components:

- on-board radiation level meters
- chemical agent detection system
- chemical agent identification system
- CWA stand-off-detection system
- on-board meteorological system
- GPS module, data logger
- biological alarm monitor
- contaminated area marking system
- LCD display with ATP-45 NBC report preparing function
- sampling system with remote controlled semi-automatic manipulator
- dose rate and contamination meter
- chemical agent monitor
- bio detection kit







Radiation Shielded Emergency Vehicle on RDO 3221



- High level of radiation shielding
- 2 stage collective protection system
- Off-road capability
- Passenger area is suitable for decontamination with high pressure technique
- Measuring areas: outside, driver and passenger area
- On board radiation control system (separate dose measurement for driver, commander and passenger area)
- Automatic calculation of exposure limit
- Alarms in case of high level external radiation, reaching the exposure limit value, internal contamination...





Armoured recovery vehicle based on RDO 3932



- 2+3 crew capacity in armoured compartment
- Space for personal weapons and stuff
- NBC filtered, over pressurized and air-conditioned compartment
- 5t crane with 3,5 m operational length
- 40t pulling force hydraulic winch
- 10t lift & tow equipment
- Storage spaces for tools and rescue devices
- Good off-road capability







Armoured transport vehicle based on RDO 3932



- 2+3 crew capacity in armoured compartment
- Space for personal weapons and stuff
- NBC filtered, over pressurized and air-conditioned compartment
- 9 t load capacity
- Numerous load fixing points on vehicle platform
- 35t towing capability
- Good off-road capability







LE and disaster management solutions based on RDO 3932



- 2+3 crew capacity in armoured compartment
- NBC filtered, over pressurized and air-conditioned compartment
- 9 t load capacity
- Numerous load fixing points on vehicle platform
- 35t towing capability
- Good off-road capability





Ambulance vehicle based on RDO 3921



- Crew of 3 (driver plus 2 medical person)
- Convertible stretcher systems both side for one lying patient or for three sitting ones
- Easy to operate/load stretchers for NATO standard litters
- Built in oxygen supply system
- Infusion holders
- Numerous space for medical equipment and materials
- Onboard power supply
- Armoured and NBC filtered, over pressurized compartment
- Good off-road capability







Infantry vehicle based on RDO 3921



- Crew capacity up to 2+9 person
- Space and fixing points for personal weapons and stuff
- Armoured , NBC filtered, over pressurized, and air conditioned compartment
- All around surveillance camera system
- Blast mitigation seats
- Rotatable roof hatches (preparation of turret or automatic weapon station, or any other equipment)
- Good off-road capability







Reconnaissance vehicle based on RDO 3121



Main components:

•The Adaptive Multi-sensory System integrates various surveillance sensors such as radars, thermal imagers, video cameras and other devices into one complex but easy to use system.

- NBC filtered, over pressurized and air-conditioned compartment
- 5 seat, 2+1 workstation









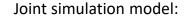




- Light trailers with adjustable military towing heads up to GVW 3500 kg
- Own design tailored by customer needs with type approval
- Insulated water carrier
- Lightening tower
- Multipurpose base version for field kitchen, decontamination unit, communication post, transportation, special, unique utilization



Personal Protective Equipment Division **Measuring Instruments Division** Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division **Simulation and Training Systems Division**



- Land forces
- Air, air defence forces •
- Naval forces
 - Logistic (transport, medical, engineering)
 - CBRN
 - OOTW
 - **Urban operations**
 - **Disaster management**
 - Anti terrorist operations
 - Homeland security
 - **Critical Infrastructure Protection**

- constructive simulation
- virtual simulation
- vehicle and weapon system simulators
- cyber security and operations training
- **CBRN** recce simulators

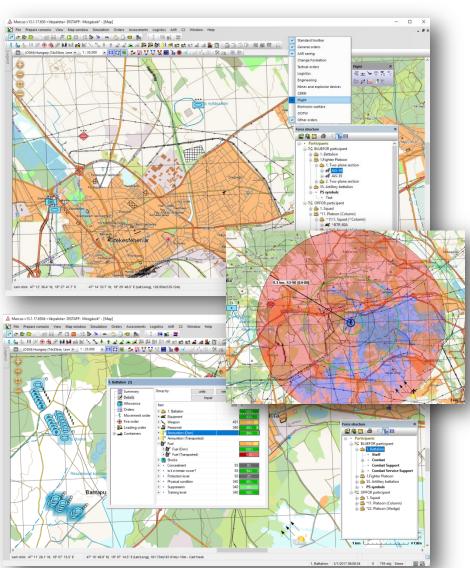






MARCUS – Tactical actions

- > 200+ simulated actions, orders:
 - Movement on terrain, in the air and waterways
 - Direct and indirect fire, detonate mines
 - Mounting/ dismounting infantry and auxiliary equipment
 - Logistics: transporting, loading, towing, repairing, medical treatment
 - Reconnaissance: visual, radar, sound ranging
 - Engineering: minefield deployment, explosive devices, road construction, bridge laying
 - CBRN modeling: contamination (grenades, industrial accidents), detection, decontamination
 - Air warfare: airports, dogfight, air defense, air refueling
 - Navy: warships, submarines, sonars, torpedoes, cruise missiles
 - Non-conventional military operations: examination, escorting, handling refugees, prisoners of war
 - Disasters: flood, fire



RTIFEX Jamma

- KRONOS is a 3D, real-time tactical simulator.
- Platoon-level tactical and gun laying simulator
- Crews of land force infantry fighting and carrier vehicles can exercise their job
- Simulation of antitank missiles, artillery equipment
- Besides crew teamwork, weapons handling tasks can be practiced as well, providing cost effective training environment for gun laying
- Reconfigurable simulator system: In the same hardware configuration different equipment can be simulated and different units can use them after minimal reconfiguration
- Vehicle crew and unit personnel can communicate with each other using an imitated radio network.
- It can be connected to other HLA compliant simulator.







Personal Protective Equipment Division Measuring Instruments Division Nuclear Devices Division Field Deployable Supporting Systems Division Special Vehicles Division Simulation and Training Systems Division

+1,2: Precision Machining /OEM R&D and production Divisons





- Precision Machining
- Welding
- Painting
- Clean room
- Antistatic assembly
- ...
- Customized products
- OEM production

Training and Simulation



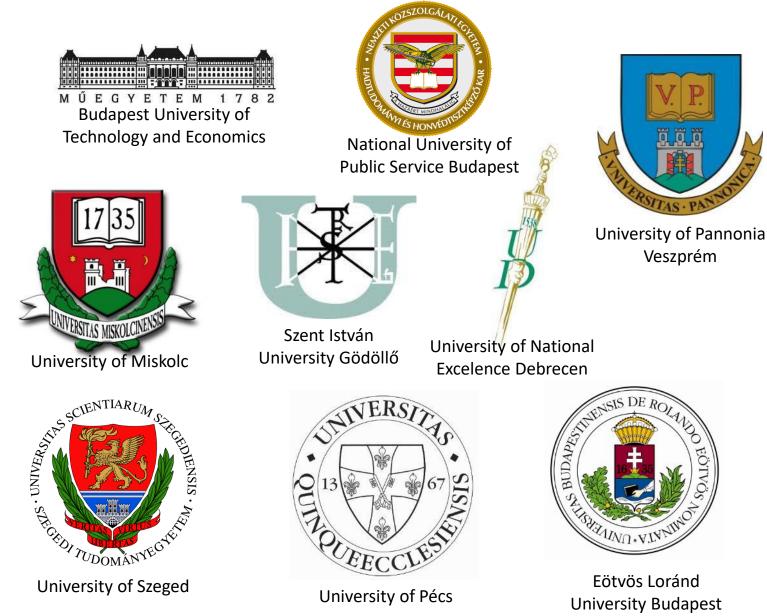


Main Partners and Customers in Education (in Hungary)

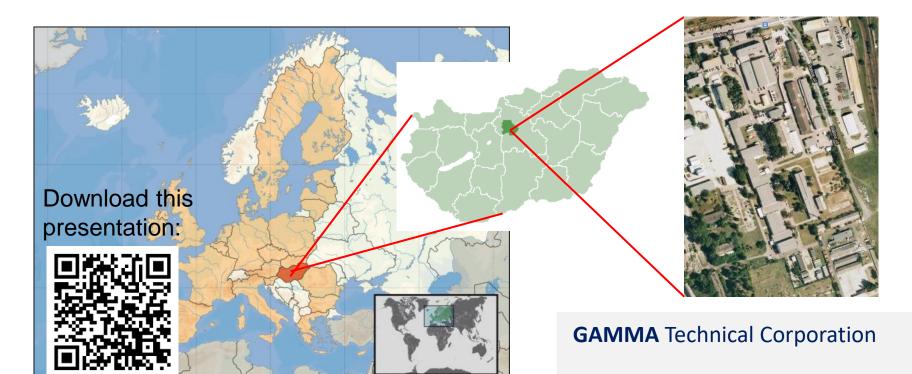




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www.gammatech.hu

Thank you for Your kind attention!

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Question?